

# Supplementary Materials: Methods and Products for the Conservation of Vandalized Urban Art Murals

Andrea Macchia <sup>1</sup>, Margarida Castro <sup>2</sup>, Claudia Curbelo <sup>1</sup>, Laura Rivaroli <sup>1</sup>, Sara Capriotti <sup>1</sup>, Eduarda Vieira <sup>2</sup>, Patrícia Moreira <sup>2</sup>, Silvestro Antonio Ruffolo <sup>3</sup> and Mauro Francesco La Russa <sup>3,\*</sup>

<sup>1</sup> Youth in Conservation of Cultural Heritage (YOCOCU), 00185 Rome, Italy; info@yococu.com (A.M.); info@yococu.it (C.C.); laura\_rivaroli@yahoo.it (L.R.); saracapriotti@yahoo.it (S.C.)

<sup>2</sup> Escola das Artes, Universidade Católica Portuguesa (UCP), 4169-005 Porto, Portugal; yococu.yococu@gmail.com (M.C.); evieira@porto.ucp.pt (E.V.); prmoreira@porto.ucp.pt (P.M.)

<sup>3</sup> DiBEST—Dipartimento di Biologia, Ecologia e Scienze della Terra, University of Calabria, 87036 Rende, Italy; silvestro.ruffolo@unical.it

\* Correspondence: mauro.larussa@unical.it

**Table S1.** Solubility tests on vandalized specimens with Montana 94.

1	2	3	4	5	6	7	8
<b>Swab rolling test (beginning of removal) — (number of strokes — max 100–):</b>							
65	85	100	2	2	20	2	100
<b>Solvent action (min. +; max. +++)   Amount required to remove vandalism paint:</b>							
+	+	+	+++	++	++	++	++
5 mL	2 mL	5 mL	3 mL	2 mL	4 mL	3 mL	2 mL
<b>Aggressiveness (min. +; max. +++):</b>							
+	+	+	+++	+++	++	++	++
<b>Efficiency evaluated on the solvent power and on its management (min. +; max. +++):</b>							
+	++	+	+++	++	+++	+++	++

**Table S2.** Solubility tests on vandalized specimens with IVAS SP.

1	2	3	4	5	6	7	8
<b>Swab rolling test (beginning of removal) — (number of strokes — max 100–):</b>							
82 (no removal)	92	100 without results	4	4	22	5	5
<b>Solvent action (min. +; max. +++)   Amount required to remove vandalism paint:</b>							
++	++	+++	+++	+++	++	++	++
4 mL	4 mL	3 mL	1 mL	3 mL	2 mL	3 mL	3 mL
<b>Aggressiveness (min. +; max. +++):</b>							
+	+	+	+++	+++	++	+++	+++
<b>Efficiency evaluated on the solvent power and on its management (min. +; max. +++):</b>							
++	+	++	++	+	+	+	+

**Table S3.** Solubility tests on vandalized specimens with Loop.

1	2	3	4	5	6	7	8
<b>Swab rolling test (beginning of removal) – (number of strokes – max 100–):</b>							
100 (no removal)	54	100 without results	2	2	63	3	17
<b>Solvent action (min. +; max. +++ )   Amount required to remove vandalism paint:</b>							
+	+	+	+++	++	++	++	++
3 mL	2 mL	3 mL	5 mL	2 mL	2 mL	2 mL	5 mL
<b>Aggressiveness (min. +; max. +++):</b>							
+	+	+	+++	+++	+	++	+++
<b>Efficiency evaluated on the solvent power and on its management (min. +; max. +++):</b>							
++	+++	+	++	++	+++	++	+

**Table S4.** Solubility tests on vandalized specimens with Montana Water Base.

1	2	3	4	5	6	7	8
<b>Swab rolling test (beginning of removal) – (number of strokes – max 100–):</b>							
61	34	78	2	3	57	2	28
<b>Solvent action (min. +; max. +++ )   Amount required to remove vandalism paint:</b>							
++	++	+	+++	+++	+++	+++	++
4 mL	6 mL	2 mL	2 mL	2 mL	2 mL	2 mL	2 mL
<b>Aggressiveness (min. +; max. +++):</b>							
++	++	+	+++	+++	+++	+++	+++
<b>Efficiency evaluated on the solvent power and on its management (min. +; max. +++):</b>							
+	+	+	++	++	++	+++	+